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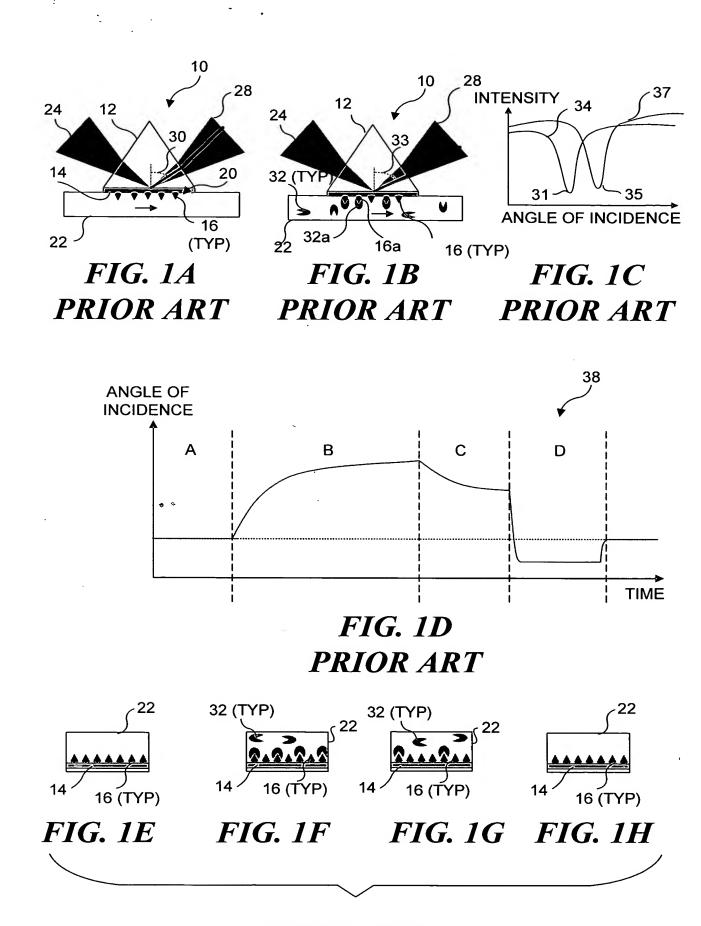
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PRIOR ART

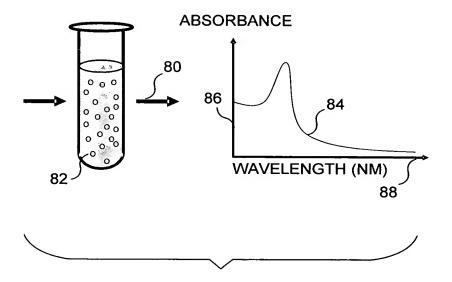


FIG. 2 PRIOR ART

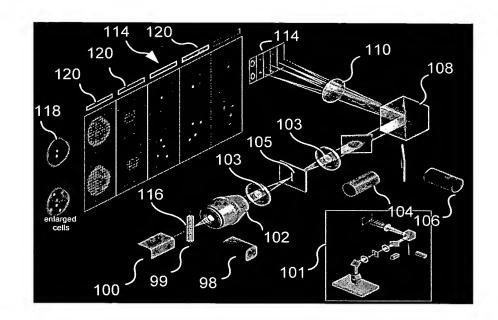


FIG. 3

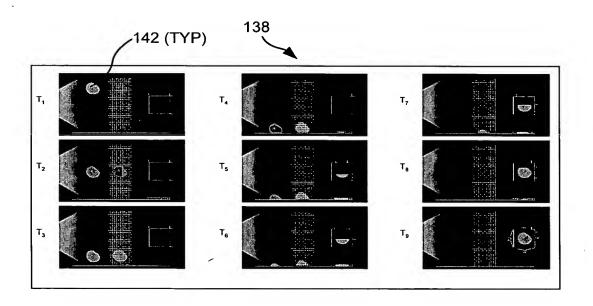
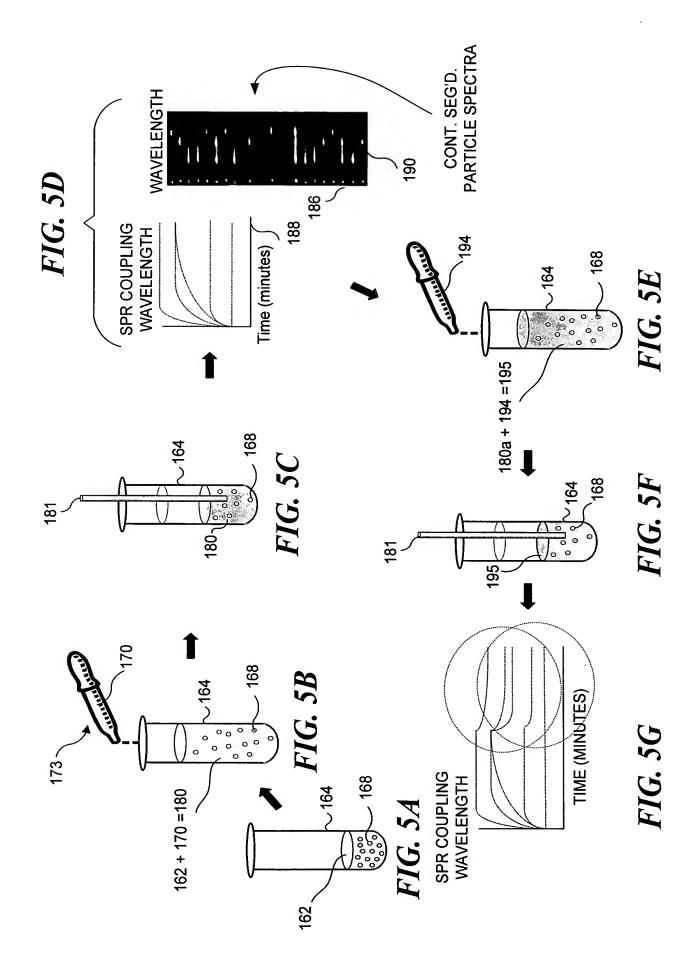
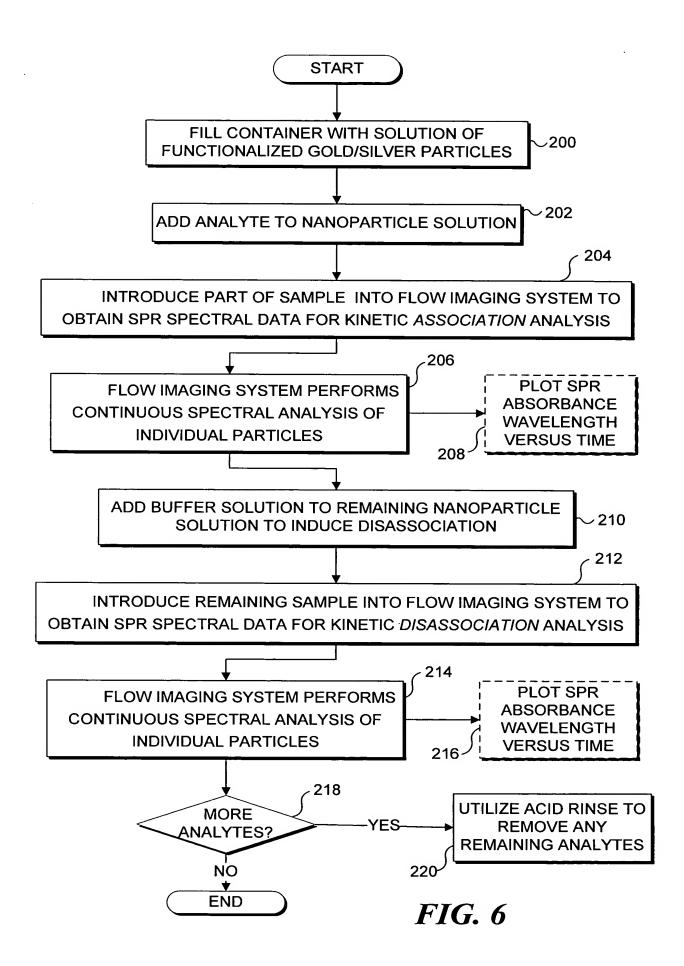


FIG. 4





SHIFT IN SPR COUPLING WAVELENGTH (NM)

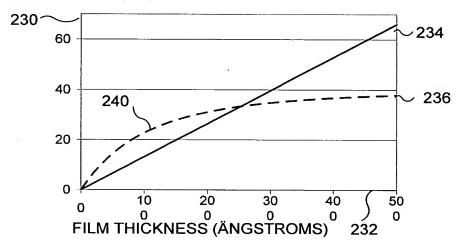
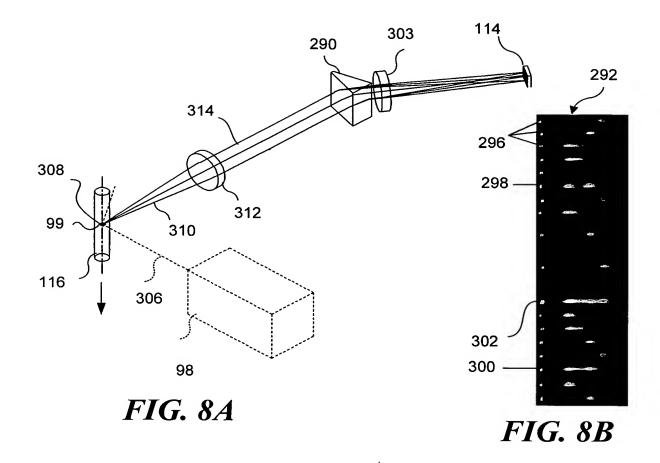
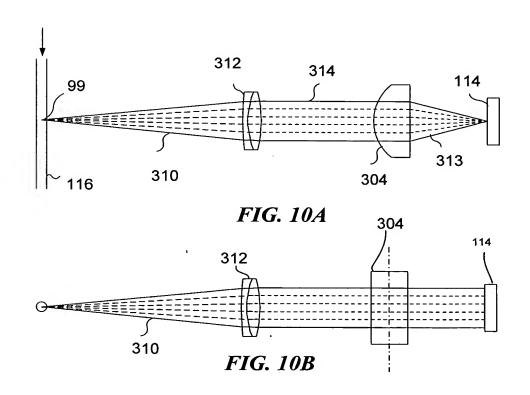
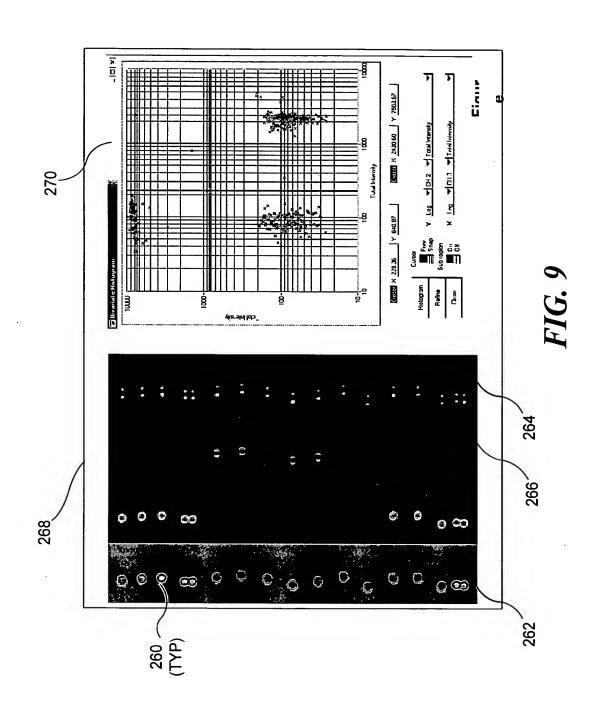


FIG. 7







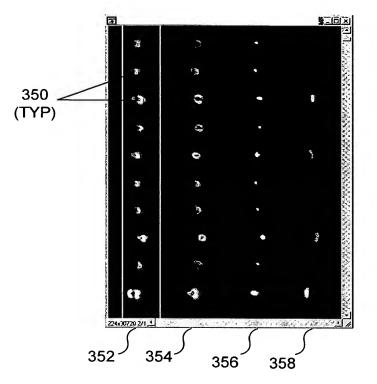


FIG. , 11

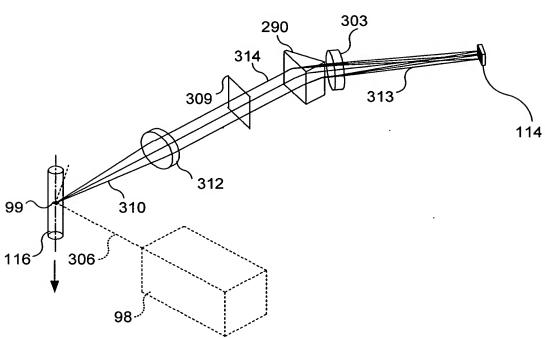


FIG. 12